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PATENT ABSTRACTS OF JAPAN

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(74) Representative:

SYNTHETASE, ITS (54) TREHALOSE

PRODUCTION AND

PRODUCTION OF TREHALOSE USING THE

(57) Abstract:

ENZYME

PROBLEM TO BE SOLVED: To synthetase acting on maltose to obtain a new trehalose

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pharmaceuticals, foods, cosmetics, etc., by culturing a microorganism belonging to the genus Pseudomonas and having trehalose synthetase producing capacity in a culture medium.

SOLUTION: The objective new Pseudomonas and capable of belonging to the genus by culturing a microorganism trehalose synthetase is produced on trehalose to form maltose, maltose to form trehalose, acts and collecting the product from producing a trehalose synthetase 37°C, optimum temperature of has optimum pH of 6.0-10.0 at trehalose synthetase acts on (FERM P-14747)] in a medium and Cd++ and has an aminoweight of 40,000-80,000 point of 5.0-6.0 and molecular of 40-50°C at pH7.0, isoelectric 5.0-11.0 at 37°C, heat stability 45°C at pH7.0, pH stability of the cultured material. The expressed by the formula. Co++, Zn++, Ni++, Hg++, Cu++ e.g. Pseudomonas sp.F-1 terminal amino acid sequence (SDS.PAGE), is inactivated with

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